Library Management System

Library
- +LibraryName: String
- +Address: String
- +addBook()
- +removeBook()
- +issueBook()
- +returnBook()

Librarian
- +employeeID: String
- +name: String
- +manage()
- +register()
- +fine()

works in 1...*

LibraryCard
- +cardID : int
- +issueDate : Date
- +expiry : Date
- +renew()

owns 1 — 1

Member
- +memberID: String
- +name : String
- +contact: String
- +borrowBook()
- +returnBook()

imposedon 0...*

Fine
- +amount : int
- +dueDate : Date
- +PayFine()

Student
- +name : String
- +ID : int
- +borrow()
- +return()

Faculty
- +name : String
- +ID : int
- +borrow()
- +return()

Transaction
- +transID : int
- +borrowDate : Date
- +returnDate : Date
- +fine : Double
- +calculateFine()

borrows 0...* — 0...*

Book
- +title : String
- +author : String
- +ISBN : String
- +published : Year
- +availability: Bool
- +checkAvailability()
- +issueToMember()
- +return()

key 1

<<enumeration>>
Book Availability
Available
Check Out
Reserved

Author
- +name : String
- +bio : String
- +writeBook()

writtenby 1 — 1...*

Fiction

NewsPaper

Magazine